

# INTERNATIONAL SEARCH REPORT

PCT/GB2004/002870

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K47/48

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data, PAJ, EMBASE, MEDLINE, Sequence Search

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99/15549 A (CELLTECH THERAPEUTICS LTD ; HUMPHREYS DAVID PAUL (GB)) 1 April 1999 (1999-04-01)	1-19, 27-30
Y	page 24, line 8 - line 24; claims; examples; table 1	1-30
X	WO 97/36932 A (KALLAND TERJE ; PHARMACIA & UPJOHN AB (SE); ANTONSSON PER (SE); HANSSO) 9 October 1997 (1997-10-09)	1-7, 27, 28, 30
Y	page 24, line 18 - page 25, line 6; claims; examples	1-30
P, X	EP 1 419 786 A (BRACCO IMAGING SPA) 19 May 2004 (2004-05-19)	1, 6-9, 30
P, Y	page 4, line 33 - page 7, line 24; claims; examples	1-30
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

20 December 2004

Date of mailing of the international search report

04/01/2005

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	HUMPHREYS D P ET AL: "Formation of dimeric Fabs in Escherichia coli: effect of hinge size and isotype, presence of interchain disulphide bond, Fab' expression levels, tail piece sequences and growth conditions" JOURNAL OF IMMUNOLOGICAL METHODS, ELSEVIER SCIENCE PUBLISHERS B.V.,AMSTERDAM, NL, vol. 209, no. 2, 1997, pages 193-202, XP004103797 ISSN: 0022-1759	1-15,17, 18,27, 28,30
Y	abstract; materials and methods; results; discussion; -----	1-30
X	HUMPHREYS D P ET AL: "Efficient site specific removal of a C-terminal FLAG fusion from a Fab' using copper(II) ion catalysed protein cleavage" PROTEIN ENGINEERING, OXFORD UNIVERSITY PRESS, SURREY, GB, vol. 12, no. 2, February 1999 (1999-02), pages 179-184, XP000882102 ISSN: 0269-2139	1-11,13, 15,17, 27,28,30
Y	abstract; materials and methods; results; -----	1-30
Y	BURMEISTER GETZ E ET AL: "Comparison between the sulphydryl reductants tris(2-carboxyethyl)phosphine and dithiothreitol for use in protein biochemistry" ANALYTICAL BIOCHEMISTRY, ACADEMIC PRESS, SAN DIEGO, CA, US, vol. 273, 15 August 1999 (1999-08-15), pages 73-80, XP000946001 ISSN: 0003-2697 abstract; discussion; -----	19-26

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## Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of Item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
- a. type of material
- ☒ a sequence listing
- ☐ table(s) related to the sequence listing
- b. format of material
- ☒ in written format
- ☒ in computer readable form
- c. time of filing/furnishing
- ☐ contained in the international application as filed
- ☐ filed together with the international application in computer readable form
- ☒ furnished subsequently to this Authority for the purpose of search
2. ☒ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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			JP 2002502363 T	22-01-2002
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			NZ 329145 A	23-06-2000
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			RU 2198895 C2	20-02-2003
			WO 9736932 A1	09-10-1997
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			US 2003092894 A1	15-05-2003
			US 6514498 B1	04-02-2003
			ZA 9702492 A	02-10-1997
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			WO 2004043492 A1	27-05-2004